## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS:**

1. (original): A method of forming a thin film of vinylidene fluoride homopolymer comprising I-form crystal structure alone or as main component, the method comprises applying, on a substrate, a vinylidene fluoride homopolymer which contains, at one end or both ends thereof, a moiety represented by the formula (1):

$$-(R^1)_n-Y$$
 (1)

wherein R<sup>1</sup> is a divalent organic group but does not contain a structural unit of the vinylidene fluoride homopolymer; n is 0 or 1; Y is a functional group, and has a number average degree of polymerization of vinylidene fluoride homopolymer unit of 3 to 100, to form a thin film of the vinylidene fluoride homopolymer comprising I-form crystal structure alone or as main component.

2. (original): The method of forming a thin film of Claim 1, wherein in the vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component, when attention is given to proportions of the respective vinylidene fluoride homopolymers having I-, II- or III-form crystal structure in the thin film of vinylidene fluoride

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homopolymer which are calculated by IR analysis, the proportion of vinylidene fluoride homopolymers having I-form crystal structure satisfies both of (Equation 1):

 $100 \ge \text{I-form} / (\text{I-form} + \text{II-form}) > 50 \% \text{ by weight}$  (Equation 1) and (Equation 2):

 $100 \ge \text{I-form} / (\text{I-form} + \text{III-form}) > 50 \% \text{ by weight}$  (Equation 2).

- 3. (currently amended): The method of forming a thin film of Claim 1-or 2, wherein Y in the formula (1) is a functional group which can impart, to the vinylidene fluoride homopolymer, adhesion to the substrate of organic material and/or inorganic material.
- 4. (currently amended): The method of forming a thin film of Claim 1-or 2, wherein Y in the formula (1) is a functional group which can make self-organization of vinylidene fluoride homopolymer possible on the surface of the substrate of organic material and/or inorganic material.
- 5. (currently amended): The method of forming a thin film of Claim 1-or 2, wherein Y in the formula (1) is a functional group which can bond vinylidene fluoride homopolymers each other.

6. (original): The method of forming a thin film of Claim 4, wherein Y in the formula (1) is -CH=CH<sub>2</sub>, -SH and / or -SiX<sub>3-n</sub>R<sup>6</sup><sub>n</sub> (n is 0 or an integer of 1 or 2; R<sup>6</sup> is CH<sub>3</sub> or  $C_2H_5$ ; X is -OR<sup>7</sup>, -COOH, -COOR<sup>7</sup>, -NH<sub>3-m</sub>R<sup>7</sup><sub>m</sub>, -OCN or halogen atom (R<sup>7</sup> is CH<sub>3</sub>,  $C_2H_5$  or  $C_3H_7$ , m is 0 or an integer of 1 to 3)).

7. (original): The method of forming a thin film of Claim 5, wherein Y in the formula (1) is -CH=CH<sub>2</sub>, -OCOCH=CH<sub>2</sub>, -OCOCF=CH<sub>2</sub>, -OCOC(CH<sub>3</sub>)=CH<sub>2</sub> or -OCOCCl=CH<sub>2</sub>.

8. (original): A laminated article which has, on a substrate, a self-organized thin film formed by using vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component and having a number average degree of polymerization of vinylidene fluoride homopolymer unit of 3 to 100.

9. (original): A laminated article which has, on a substrate, a thin film formed by bonding of vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component and having a number average degree of polymerization of vinylidene fluoride homopolymer unit of 3 to 100.

10. (currently amended): The laminated article of Claim 8-or-9, wherein in the vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main

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component, when attention is given to proportions of the respective vinylidene fluoride homopolymers having I-, II- or III-form crystal structure in the thin film of vinylidene fluoride homopolymer which are calculated by IR analysis, the proportion of vinylidene fluoride homopolymers having I-form crystal structure satisfies both of (Equation 1):

$$100 \ge \text{I-form} / (\text{I-form} + \text{II-form}) > 50 \% \text{ by weight}$$
 (Equation 1)

and (Equation 2):

$$100 \ge \text{I-form} / (\text{I-form} + \text{III-form}) > 50 \% \text{ by weight}$$
 (Equation 2).

11. (original): The laminated article of Claim 8, wherein the self-organized film formed by using the vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component is formed by using vinylidene fluoride homopolymers having a number average degree of polymerization of vinylidene fluoride homopolymer unit of 3 to 100 and containing, at one end or both ends thereof, a moiety represented by the formula (1-1):

$$-(R^1)_n-Y^1$$
 (1-1)

wherein  $R^1$  is a divalent organic group but does not contain a structural unit of the vinylidene fluoride homopolymer; n is 0 or 1;  $Y^1$  is -SH and/or -SiX<sub>3-n</sub>R<sup>6</sup><sub>n</sub> (n is 0 or an integer of 1 or 2;  $R^6$ 

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is CH<sub>3</sub> or C<sub>2</sub>H<sub>5</sub>; X is -OR<sup>7</sup>, -COOH, -COOR<sup>7</sup>, -NH<sub>3-m</sub>R<sup>7</sup><sub>m</sub>, -OCN or halogen atom (R<sup>7</sup> is CH<sub>3</sub>, C<sub>2</sub>H<sub>5</sub> or C<sub>3</sub>H<sub>7</sub>, m is 0 or an integer of 1 to 3)).

12. (original): The laminated article of Claim 9, wherein the thin film formed by bonding of the vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component is formed by using vinylidene fluoride homopolymers having a number average degree of polymerization of vinylidene fluoride homopolymer unit of 3 to 100 and containing, at one end or both ends thereof, a moiety represented by the formula (1-2):

$$-(R^1)_n-Y^2$$
 (1-2)

wherein  $R^1$  is a divalent organic group but does not contain a structural unit of the vinylidene fluoride homopolymer; n is 0 or 1;  $Y^2$  is -CH=CH<sub>2</sub>, -OCOCH=CH<sub>2</sub>, -OCOCF=CH<sub>2</sub>, -OCOC(CH<sub>3</sub>)=CH<sub>2</sub> or -OCOCCl=CH<sub>2</sub>.

13. (currently amended): A ferroelectric device comprising the laminated article of Claim 8any of Claims 8 to 12.

14. (original): A vinylidene fluoride homopolymer represented by the formula (IA-2):

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$$Z^{1}$$
- $(R^{10})_{n1}$ - $A^{1}$ - $(R^{11})_{n2}$ -S- $M^{1}$  (IA-2)

wherein A<sup>1</sup> is a structural unit of vinylidene fluoride homopolymers having a number average degree of polymerization of 3 to 100; Z<sup>1</sup> is a polyfluoroalkyl group or an alkyl group; R<sup>10</sup> and R<sup>11</sup> are the same or different and each is a divalent organic group but does not contain a vinylidene fluoride homopolymer unit comprising I-form crystal structure alone or as main component; n1 and n2 are the same or different and each is 0 or 1; M<sup>1</sup> is hydrogen atom or alkali metal atom.

15. (original): A vinylidene fluoride homopolymer represented by the formula (IB-3):

$$M^2$$
-S- $(R^{12})_{n3}$ - $A^2$ - $R^2$ - $A^3$ - $(R^{13})_{n4}$ -S- $M^3$  (IB-3)

wherein  $A^2$  and  $A^3$  are the same or different and each is a structural unit of vinylidene fluoride homopolymers and a total number average degree of polymerization of  $A^2$  and  $A^3$  is from 3 to 100;  $R^2$  is a divalent organic group but does not contain a structural unit of the vinylidene fluoride homopolymer;  $R^{12}$  and  $R^{13}$  are the same or different and each is a divalent organic group but does not contain a structural unit of the vinylidene fluoride homopolymer; n3 and n4 are the same or different and each is 0 or 1;  $M^2$  and  $M^3$  are the same or different and each is hydrogen atom or alkali metal atom.

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16. (new): The method of forming a thin film of Claim 2, wherein Y in the formula
(1) is a functional group which can impart, to the vinylidene fluoride homopolymer, adhesion to the substrate of organic material and / or inorganic material.

17. (new): The method of forming a thin film of Claim 2, wherein Y in the formula (1) is a functional group which can make self-organization of vinylidene fluoride homopolymer possible on the surface of the substrate of organic material and/or inorganic material.

18. (new): The method of forming a thin film of Claim 2, wherein Y in the formula

(1) is a functional group which can bond vinylidene fluoride homopolymers each other.

19. (new): The laminated article of Claim 9, wherein in the vinylidene fluoride homopolymers comprising I-form crystal structure alone or as main component, when attention is given to proportions of the respective vinylidene fluoride homopolymers having I-, II- or III-form crystal structure in the thin film of vinylidene fluoride homopolymer which are calculated by IR analysis, the proportion of vinylidene fluoride homopolymers having I-form crystal structure satisfies Both of (Equation 1):

 $100 \ge \text{I-form} / (\text{I-form} + \text{II-form}) > 50 \% \text{ by weight}$  (Equation 1)

and (Equation 2):

 $100 \ge \text{I-form} / (\text{I-form} + \text{III-form}) > 50 \% \text{ by weight}$  (Equation 2).

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20. (new): A ferroelectric device comprising the laminated article of

Claim 9.